

ABSTRACT

A water treatment system for treating water. The water treatment system includes a primary water treatment station and a solid-based sulfurous generator downstream from the primary water treatment station for producing aqueous sulfurous acid for further treatment of the water. In one embodiment, the solid-based sulfurous generator includes a hydraulic air inlet shut off valve safety system for automatically reducing the combustion air to the sulfurous generator when water is not delivered to the solid-based sulfurous generator. Also, in one embodiment, the water treatment system includes a control system that monitors the pH of the treated water to control the water flow rate through the solid-based sulfurous generator to achieve the desired concentration of sulfurous acid in the water being treated.